

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: **Joseph Schlessinger, et al.**
Title: **NOVEL RECEPTOR-TYPE PHOSPHOTYROSINE
PHOSPHATASE-KAPPA ANTIBODIES**
Appl. No.: **Not Yet Assigned**
Filing Date: **October 1, 2001**
Cont. of
Prior Serial
No.: **09/234,883**
Prior Filing
Date: **January 21, 1999**
Examiner: **Not Yet Assigned**
Art Unit: **Not Yet Assigned**



INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

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OFFICE OF PETITIONS

Commissioner for Patents
Box PATENT APPLICATION
Washington, D.C. 20231

Sir:

Applicants submit herewith on Form PTO-1449 a listing of the documents cited by or submitted to the U.S. PTO in US Serial No. 09/234,883 and in parent application Serial Nos. 08/087,244 filed July 1, 1993 (now US Patent No. 5,863,755) and 08/446,644 filed May 24, 1995 (now US Patent No. 5,856,162). As provided in 37 CFR §1.98(d), copies of the documents are not being provided since they were previously submitted to the United States Patent & Trademark Office in the above-identified parent application.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise

remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b), within three (3) months of the filing date of the application.

RELEVANCE OF EACH DOCUMENT

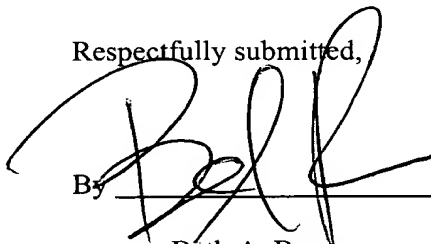
All of the documents are in English.

Applicants respectfully request that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO-1449 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 C.F.R. §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

Respectfully submitted,

By



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U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.
038602/1246

SERIAL NO. **Not Yet Assigned**

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

APPLICANT

Joseph Schlessinger, et al.

FILING DATE


October 1, 2001

GROUP PART UNIT
Not Yet Assigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE

JCS41 U.S. PTO
09/887669



FOREIGN PATENT DOCUMENTS

[illegible]

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

A1	Jiang et al., "Cloning and Characterization of R-PTP-K, a New Member of the Receptor Protein Tyrosine Phosphatase Family with a Proteolytically Cleaved Cellular Adhesion Molecule-Like Extracellular Region," <i>Molecular and Cellular Biology</i> 13(5):2942-2951 (1993)
A2	LaForgia et al., "Receptor protein-tyrosine phosphatase gamma is a candidate tumor suppressor gene at human chromosome region 3p21". <i>Proc. Natl. Acad. Sci. USA</i> 88: 5036-5040, (1991).
A3	Daum et al., "Characterization of a human recombinant receptor-linked protein tyrosine phosphatase", <i>J. Biol. Chem.</i> , 266: 12211-12215 (1991).
A4	Gebbink, et al., "Cloning, Expression and Chromosomal Localization of a New Putative Receptor-like Protein Tyrosine Phosphatase", <i>FEBS Lett.</i> 290:123-130 (1991)
A5	Kaplan et al., "Cloning of three human tyrosine phosphatases reveals a multigene family of receptor-linked protein-tyrosine-phosphatases expressed in brain," <i>Proc. Natl. Acad. Sci. USA</i> 87:7000-7004 (1990)

EXAMINER

DATE CONSIDERED

* **EXAMINER:** Initial if citation considered, whether or not citation is in compliance with MPEP 609; Draw line through citation if not in compliance and not considered. Include any copy of this form with next communication to applicant.

Form PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 038602/1246	SERIAL NO. Not Yet Assigned
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)				
	A6	Sap et al., "Cloning and expression of a widely expressed receptor tyrosine phosphatase," <i>Proc. Natl. Acad. Sci. USA</i> 87:6112-6116 (1990)		
	A7	George and Parker, "Preliminary characterization of phosphotyrosine phosphatase activities in human peripheral blood lymphocytes: Identification of CD45 as a phosphotyrosine phosphatase", <i>J. Cell Biochem.</i> 42: 71-81 (1990).		
	A8	Nishi, et al., "Novel Putative Protein Phosphatases Identified by the Polymerase Chain Reaction". <i>FEBS Lett.</i> 271:178-180 (1990)		
	A9	Jirik et al., "Cloning of a novel receptor-linked protein tyrosine phosphatase from a human hepatoblastoma cell line", <i>FASEB J.</i> 4A: 2082 (Abstr. 2253) (1990).		
	A10	Jirik et al., "Cloning and chromosomal assignment of a widely expressed human receptor-like protein-tyrosine phosphatase," <i>FEBS Letters</i> 273(1,2):239-242 (1990)		
	A11	Krueger et al., "Structural diversity and evolution of human receptor-like protein tyrosine phosphatases," <i>The EMBO Journal</i> 9(10):3241-3252 (1990)		
	A12	Matthews et al., "Identification of an additional member of the protein-tyrosine-phosphatase family: Evidence for alternative splicing in the tyrosine phosphatase domain," <i>Proc. Natl. Acad. Sci. USA</i> 87:4444-4448 (1990)		
	A13	Ohagi et al., "Sequence of a cDNA encoding human LRP (leukocyte common antigen-related peptide)", <i>Nucl. Acids Res.</i> 18: 7159 (1990).		
	A14	Streuli et al., "Distinct functional roles of the two intracellular phosphatase like domains of the receptor-linked protein tyrosine phosphatases LCA and LAR", <i>EMBO J.</i> 9: 2399-2407 (1990).		
	A15	Streuli et al., "A new member of the immunoglobulin superfamily that has a cytoplasmic region homologous to the leukocyte common antigen", <i>J. Exp. Med.</i> 168: 1523-1530 (1988).		
	A16	Tonks et al., "Demonstration That the Leukocyte Common Antigen CD45 is a Protein Tyrosine Phosphatase," <i>Biochemistry</i> 27(24):8695-8701 (1988)		
	A17	Charbonneau et al., "The leukocyte common antigen (CD45): A putative receptor-linked protein tyrosine phosphatase," <i>Proc. Natl. Acad. Sci. USA</i> 85:7182-7186 (1988)		
	A18	Ralph et al., "Structural variants of human T200 glycoprotein (leukocyte-common antigen)", <i>EMBO J.</i> 6: 1251-1257 (1987).		
	A19	Tian et al., "Three receptor-linked protein-tyrosine phosphates are selectively expressed on central nervous system axons in the <i>Drosophila</i> embryo". <i>Cell</i> 67: 675-685 (1991).		
	A20	Yang et al., "Two <i>Drosophila</i> receptor-like tyrosine phosphatase genes are expressed in a subset of developing axons and pioneer neurons in the embryonic CNS". <i>Cell</i> 67: 661-673 (1991).		

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	A21	Hariharan et al., "Cloning and characterization of a receptor-class phosphotyrosine phosphatase gene expressed on central nervous system axons in <i>Drosophila melanogaster</i> ", <i>Proc. Natl. Acad. Sci. USA</i> 88: 11266-11270 (1991).			
	A22	Streuli et al., "A family of receptor-linked protein tyrosine phosphatases in humans and <i>Drosophila</i> ", <i>Proc. Natl. Acad. Sci. USA</i> 86: 8698-8702 (1989).			
	A23	Yi et al., "Protein tyrosine phosphatase containing SH2 domains: characterization, preferential expression in hematopoietic cells, and localization to human chromosome 12p12-p13", <i>Mol. and Cell. Biol.</i> 12: 836-846 (1992).			
	A24	Gu et al., "Identification, cloning, and expression of a cytosolic megakaryocyte protein-tyrosine-phosphatase with sequence homology to cytoskeletal protein 4.1", <i>Proc. Natl. Acad. Sci. USA</i> 88: 5867-5871 (1991).			
	A25	Chernoff et al., "Cloning of a cDNA for a major human protein-tyrosine phosphatase," <i>Proc. Natl. Acad. Sci. USA</i> 87:2735-2739 (1990)			
	A26	Guan et al., "Cloning and expression of a protein-tyrosine-phosphatase," <i>Proc. Natl. Acad. Sci. USA</i> 87:1501-1501 (1990)			
	A27	Charbonneau et al., "Human placenta protein-tyrosine-phosphatase: Amino acid sequence and relationship to a family of receptor-like proteins," <i>Proc. Natl. Acad. Sci. USA</i> 86:5252-5256 (1989)			
	A28	Cool et al., "cDNA isolated from a human T-cell library encodes a member of the protein-tyrosine-phosphatase family," <i>Proc. Natl. Acad. Sci. USA</i> 86:5257-5761 (1989)			
	A29	Pallen et al., Purification of a phosphotyrosine phosphatase that dephosphorylates the epidermal growth-factor receptor autophosphorylation sites, <i>Ann. N.Y. Acad. Sci.</i> 551: 299-308 (1988).			
	A30	Zheng et al., "Cell transformation and activation of pp60 c-src by overexpression of a protein tyrosine phosphatase". <i>Nature</i> 359: 336-339 (1992).			
	A31	Haughn et al., "Association of tyrosine kinase p56 ^{lck} with CD4 inhibits the induction of growth through the $\alpha\beta$ T-cell receptor". <i>Nature</i> 358: 328-331 (1992).			
	A32	Mustelin et al., "Rapid activation of the T-cell tyrosine protein kinase pp56 ^{lck} by the CD45 phosphotyrosine phosphatase", <i>Proc. Natl. Acad. Sci. USA</i> 86: 6302-6306 (1989).			
	A33	Ostergaard et al., "Expression of CD45 alters phosphorylation of the <i>lck</i> -encoded tyrosine protein kinase in murine lymphoma T-cell lines", <i>Proc. Natl. Acad. Sci. USA</i> 86: 8959-8963 (1989).			
	A34	Klarlund, "Transformation of cells by an inhibitor of phosphatases acting on phosph tyrosine in proteins", <i>Cell</i> 41: 707-717 (1985).			
	A35	Beckmann and Bork., "An Adhesive Domain Detected in Functionally diverse receptors," <i>TIBS</i> 18:40-41 (1993)			

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	A36	O'Bryan et al., "axl, a transforming gene isolated from primary human myeloid leukemia cells, encodes a novel receptor tyrosine kinase". <i>Mol. Cell. Biol.</i> 11: 5016-5031 (1991).					
	A37	Rescigno et al., "A putative receptor tyrosine kinase with unique structural topology". <i>Oncogene</i> 6: 1909-1913 (1991).					
	A38	Burgoon et al., "Structure of chicken neuron-glia cell adhesion molecule, Ng-CAM: origin of the polypeptides and relation to the Ig superfamily". <i>J. Cell. Biol.</i> 112: 1017-1029 (1991).					
	A39	Bieber et al., "Drosophila neuroglian: a member of the immunoglobulin superfamily with extensive homology to the vertebrate neural adhesion molecule L1". <i>Cell</i> 59: 447-460 (1989).					
	A40	Takagi et al., "The A5 Antigen, a Candidate for the Neuronal Recognition Molecule, Has Homologies to Complement Components and Coagulation Factors," <i>Neuron</i> 7:295-307 (1991)					
	A41	Blaschuk et al., "Identification of a Conserved Region Common to Cadherins and Influenza Strain A Hemagglutinin," <i>J.Mol. Biol.</i> 211:679-682 (1990)					
	A42	Hosaka et al., "Arg-X-Lys/Arg-Arg motif as a signal for precursor cleavage catalyzed by furin within the constitutive secretory pathway". <i>J. Biol. Chem.</i> 266: 12127-12130 (1991).					
	A43	Kornblihtt et al., "Primary structure of human fibronectin: differential splicing may generate at least 10 polypeptides from a single gene". <i>EMBO J.</i> 4: 1755-1759 (1985).					
	A44	Schlessinger and Ullrich, "Growth Factor Signalling by Receptor Tyrosine Kinases," <i>Neuron</i> 9:383-391 (1992)					
	A45	Pot and Dixon, "A thousand and two protein tyrosine phosphatases," <i>Biochimica et Biophysica Acta</i> 1136:35-43 (1992)					
	A46	Fischer et al., "Protein Tyrosine Phosphatases: A Diverse Family of Intracellular and Transmembrane Enzymes," <i>Science</i> 253:401-406 (1991)					
	A47	Saito and Streuli, "Molecular Characterization of Protein Tyrosine Phosphatases," <i>Cell Growth & Differentiation</i> 2(1):59-65 (1991)					
	A48	Klausner and Samelson, "T cell antigen receptor activation pathways: The tyrosine kinase connection". <i>Cell</i> 64: 875-878 (1991).					
	A49	Kjellen and Lindahl, "Proteoglycans: structures and interactions". <i>Ann. Rev. Biochem.</i> 60: 443-475 (1991).					
	A50	Ullrich and Schlessinger, "Signal Transduction by Receptors with Tyrosine Kinase Activity," <i>Cell</i> 61:203-212 (1990)					

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	A51	Hunter, "Protein-Tyrosine Phosphatases: The Other Side of the Coin," <i>Cell</i> 58:1013-1016 (1989)					
	A52	Thomas, "The leukocyte common antigen family", <i>Ann. Rev. Immunol.</i> 7: 339-369 (1989).					
	A53	Yarden and Ullrich, "Growth Factor Receptor Tyrosine Kinases," <i>Ann. Rev. Biochem.</i> 57:443-478 (1988)					
	A54	Maniatis, et al., <i>Molecular Cloning: A Laboratory Manual, 2nd Edition</i> , Cold Spring Harbor Laboratory Press (1989) (TABLE OF CONTENTS - ALL THREE VOLUMES)					
	A55	Sambrook et al., <i>Molecular Cloning, Second Edition</i> , vol. 3 pp. 16.2-16.30 and 17.2-17.28, Cold Spring Harbor Laboratory Press, New York, (1989).					
	A56	Hoffman et al., "Kinetics of Homophilic Binding by Embryonic and Adult forms of the Neural Cell Adhesion Molecule". <i>Proc. Natl. Acad. Sci., USA</i> 80:5762-5766 (1983).					
	A57	Colwell, et al., "Methods in Enzymology", <i>Academic Press, Inc.</i> 121, 42-51, (1986)					